

MATERIAL SAFETY DATA SHEET

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PETROLITE CORPORATION
369 MARSHALL AVE.
ST. LOUIS MO 63119 U.S.A

REVISION DATE: 10/17/90
EMERGENCY PHONE: 1-314-961-3500
CHEMTREC EMER NO: 1-800-424-9300

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT: MFA0010

TRADE NAME: TOLAD

LABEL: 014
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000

(IF HAZARDOUS PER D.O.T. CFR TITLE 49)

SHIPPING NAME: Combustible Liquid, N.O.S. (In Bulk D.O.T.)

HAZARD CLASS: Combustible Liquid

ID#: NA1993

CHEMICAL DESCRIPTION

FATTY ACID/POLYAMINE REACTION PRODUCTS, ALKYL CARBOXYLIC
ACIDS AND OXYALKYLATED ALKYLPHENOLIC RESINS IN AROMATIC
HYDROCARBONS AND ISOBUTANOL.

SECTION 2 HAZARDOUS INGREDIENTS

CAS NUMBER	MATERIAL	%	EXPOSURE LIMITS
**	Fatty acid/polyamine reaction products	30-60	Not Established
64742-94-5	Heavy aromatic naphtha	30-60	RECOMMENDED: 25 ppm
00078-83-1	Isobutanol	5-10	ACGIH TLV: 50 ppm TWA OSHA PEL: 100ppm TWA ACGIH STEL: 75 ppm
**	Alkylcarboxylic acids	1-5	Not Established

This revision reflects hazard of product produced after
October 17, 1990.

**Specific chemical identity is being withheld for
confidential business purposes.

Claim for Canadian Exemption No.1240-004 filed Feb. 8, 1989.

SECTION 3 PHYSICAL DATA

SPECIFIC GRAVITY (H2O = 1.0@60 F): 0.920

VAPOR PRESSURE: Not Established

VOLATILITY: Appreciable
SOL. IN WATER: Insoluble

APPEARANCE AND ODOR: Amber liquid. Aromatic odor.

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SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 103 F

FLAMMABLE LIMITS: Not Established

FLASH METHOD:

SFCC ASTM D-3828

EXTINGUISHING MEDIA:

Use water spray or fog, alcohol-type foam, dry chemical or CO2.

FIRE FIGHTING PROCEDURES:

Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode. Combustible. Keep fire exposed containers cool using water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

At elevated temperatures, vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back.

SECTION 5 HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

INHALATION:

Exposure may result in eye, nose and respiratory irritation, and may produce nausea, headache and dizziness. Prolonged exposures to elevated concentrations may cause weakness and CNS depression. In extreme cases, drowsiness and even loss of consciousness may occur.

SKIN AND EYE CONTACT:

Intermittant, brief skin contact may result in mild irritation. Prolonged contact with skin may cause moderate to severe irritation resulting in rashes and dermatitis. Contact with eyes will cause moderate to severe irritation, and may produce moderate but reversible eye injury.

INGESTION:

May cause severe gastrointestinal distress with nausea, vomiting and diarrhea. Aspiration into lungs may cause pulmonary edema and chemical pneumonitis. May be readily absorbed through the gastrointestinal tract.

EMERGENCY AND FIRST AID PROCEDURES:

Wash skin thoroughly with soap and water. If rash or irritation develops, consult a physician. Launder clothing before reuse. If in eyes, irrigate with flowing water immediately and continuously for fifteen minutes. Consult a physician promptly.

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If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.
Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Consult a physician immediately.
NOTE TO PHYSICIAN: Administer activated carbon if indicated.

SECTION 6 REACTIVITY DATA

STABILITY:

Stable under normal conditions of storage and use.

INCOMPATIBILITY:

Keep away from strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of nitrogen.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 7 SPILL AND LEAK PROCEDURES

IF MATERIAL IS SPILLED OR RELEASED:

Small spill - Absorb on paper, cloth or other material.
Large spill - Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container. Cover residue with dirt, or suitable chemical adsorbent. Use personal protective equipment as necessary.

DISPOSAL METHOD:

Place chemical residues and contaminated adsorbent materials into a suitable waste container and take to an approved waste disposal site. Dispose of all residues in accordance with applicable waste management regulations.

DECONTAMINATION PROCEDURES:

Not appropriate.

SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

When concentrations exceed the exposure limits specified, use of a NIOSH-approved organic vapor cartridge respirator is recommended. Where the protection factor of the respirator may be exceeded, use of a self-contained breathing unit may be necessary.

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VENTILATION:

General ventilation should be provided to maintain ambient concentrations below nuisance levels. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

PROTECTIVE CLOTHING:

Chemical-resistant gloves and chemical goggles should be used to prevent skin and eye contact.

SECTION 9 SPECIAL PRECAUTIONS

Avoid heat, sparks and open flames. Avoid breathing of vapors and contact with eyes, skin or clothing. Keep container closed when not in use. Hazardous product residue may remain in emptied container. Do not reuse empty container without commercial cleaning or reconditioning.

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ENVIRONMENTAL DATA SHEET

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MFA0010

SARA TITLE III, SECTION 313

This notification is incorporated into the Material Safety Data Sheet (MSDS) for the Petrolite product named above. When physically attached to the MSDS, this notification must not be detached from the MSDS. Any copying and redistribution of the MSDS to which this notification is attached must include copying and redistribution of this notification.

This Petrolite product contains a toxic chemical or chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372, as follows:

CHEMICAL	CAS NUMBER	WEIGHT PERCENT
Cumene *	000098-82-8	4.7 %
1,2,4-Trimethylbenzene *	000095-63-6	8.3 %
Xylene (mixed isomers) *	001330-20-7	6.5 %
* solvent component		
